BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-Comprehensive Development of Manavarthi Thota and Surrounding Areas and Surrounding Areas in Chowdeshwari Ward No-02.

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
							Estimation Cost.Rs		20000000.00
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27, (8km lead = 57+2*1.28X8)								
	SSM Culvert side Walls								
	15th Cross Road	Cum	2.00	4.00	0.45	0.60	2.16		
	Cross Road	Cum	2.00	4.20	0.45	0.60	2.27		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**449.54**							
	Total						**4.43**	**449.54**	**1990.56**
2	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)								
	Culvert Deck Slab								
	Cross Road	Cum	1	5.50	1.20	0.20	1.32		
	15th Cross Road	Cum	1	4.00	1.20	0.20	0.96		
	Drain								
	Bottom Raft								
	Manavarti Tota								
	Near Manjunath Book Store	Cum	1	152.00	0.75	0.15	17.10		
		Cum	1	115.00	0.90	0.15	15.53		
	17th Cross Road	Cum	1	91.00	0.75	0.15	10.24		
	4th Cross Road	Cum	1	147.00	0.75	0.15	16.54		
	Cross Road	Cum	1	126.00	0.75	0.15	14.18		
	Side Walls								
	Manavarti Tota								
	Near Manjunath Book Store	Cum	2	152.00	0.15	0.75	34.20		
		Cum	2	115.00	0.15	0.75	25.88		
	17th Cross Road	Cum	2	91.00	0.15	0.60	16.38		
	4th Cross Road	Cum	2	147.00	0.15	0.60	26.46		
	Cross Road	Cum	2	126.00	0.15	0.60	22.68		
	Culvert								
	Bottom Raft								
	Cross Road	Cum	1	5.50	1.20	0.20	1.32		
	Side Walls								
	Cross Road	Cum	2	5.50	0.20	0.75	1.65		
	Basic rate	557.00							
	Area weightage 6%	33.42							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Sub Total	**667.90**							
	Total						**204.42**	**667.90**	**136532.12**
3	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) (8km lead = 57+2*1.28X8)								
	New Drain								
	Manavarti Tota								
	Near Manjunath Book Store	Cum	1	152.00	1.05	1.05	167.58		
		Cum	1	115.00	1.20	1.05	144.90		
	Cross Road	Cum	1	77.00	1.05	1.05	84.89		
	Cross Road	Cum	2	34.00	1.05	0.90	64.26		
	17th Cross Road	Cum	1	91.00	1.05	0.90	86.00		
	Cross Road	Cum	1	126.00	1.05	0.90	119.07		
	4th Cross Road	Cum	1	147.00	1.05	0.90	138.92		
	Cross Road	Cum	1	92.00	1.05	0.90	86.94		
	Cross Road	Cum	1	61.00	1.05	0.90	57.65		
	Cross Road	Cum	1	51.00	1.05	0.90	48.20		
	3rd Cross Road								
		Cum	2	36.00	1.05	0.90	68.04		
		Cum	2	36.00	1.05	0.90	68.04		
	Cross Road Connecting 3rd Cross to 2nd Cross	Cum	1	33.00	1.05	0.90	31.19		
	Cross Road	Cum	1	122.00	1.05	0.90	115.29		
	Cross Road	Cum	1	90.50	1.05	0.90	85.52		
	New Culvert								
	Cross Road	Cum	1	5.50	1.80	1.10	10.89		
	15th Cross Road	Cum	1	4.00	1.50	1.10	6.60		
	Cross Road	Cum	1	4.20	1.50	0.95	5.99		
	3rd Cross Road	Cum	1	6.40	1.50	0.95	9.12		
	Drain Desilting								
	Cross Road	Cum	1	129.00	0.45	0.50	29.03		
	CrossRoad	Cum	1	94.00	0.60	0.60	33.84		
	15th Cross Road	Cum	1	116.00	0.45	0.45	23.49		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**215.28**							
	Total						**1485.42**	**215.28**	**319781.22**
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Precast Cover Slab								
	Manavarti Tota								
	Near Manjunath Book Store	Sqm	1	152.00	0.75		114.00		
	Cross Road	Sqm	1	129.00	0.75		96.75		
	CrossRoad	Sqm	1	94.00	0.90		84.60		
	Cross Road	Sqm	1	77.00	0.75		57.75		
	15th Cross Road	Sqm	1	116.00	0.75		87.00		
	17th Cross Road	Sqm	1	91.00	0.75		68.25		
	Cross Road	Sqm	2	34.00	0.75		51.00		
	Cross Road	Sqm	1	126.00	0.75		94.50		

il No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	4th Cross Road	Sqm	1	147.00	0.75		110.25		
	Cross Road	Sqm	1	92.00	0.75		69.00		
	Cross Road	Sqm	1	51.00	0.75		38.25		
	3rd Cross Road	Sqm							
		Sqm	2	36.00	0.75		54.00		
		Sqm	2	36.00	0.75		54.00		
	Cross Road Connecting 3rd Cross to 2nd Cross	Sqm	1	33.00	0.75		24.75		
						Sub Total	1004.10		
	Deduct 50% for Missing/Damaged	Sqm				Total	1004.10		
							502.05		
	Consider 50% Qnty for Removing & Refixing	Sqm					502.05		
							251.03		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**							
	Total						251.03	111.30	27939.08
5	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Manavarti Tota								
	Near Manjunath Book Store	Cum	1	152.00	1.05	0.15	23.94		
		Cum	1	115.00	1.20	0.15	20.70		
	Cross Road	Cum	1	77.00	1.05	0.15	12.13		
	Cross Road	Cum	2	34.00	1.05	0.15	10.71		
	17th Cross Road	Cum	1	91.00	1.05	0.15	14.33		
	Cross Road	Cum	1	126.00	1.05	0.15	19.85		
	4th Cross Road	Cum	1	147.00	1.05	0.15	23.15		
	Cross Road	Cum	1	92.00	1.05	0.15	14.49		
	Cross Road	Cum	1	61.00	1.05	0.15	9.61		
	Cross Road	Cum	1	51.00	1.05	0.15	8.03		
	3rd Cross Road								
		Cum	2	36.00	1.05	0.15	11.34		
		Cum	2	36.00	1.05	0.15	11.34		
	Cross Road Connecting 3rd Cross to 2nd Cross	Cum	1	33.00	1.05	0.15	5.20		
	Cross Road	Cum	1	122.00	1.05	0.15	19.22		
	Cross Road	Cum	1	90.50	1.05	0.15	14.25		
	New Culvert								
	Cross Road	Cum	1	5.50	1.80	0.15	1.49		
	15th Cross Road	Cum	1	4.00	1.50	0.15	0.90		
	Cross Road	Cum	1	4.20	1.50	0.15	0.95		
	3rd Cross Road	Cum	1	6.40	1.50	0.15	1.44		
	For CC Road								
	Cross Road	Cum	1	113.00	5.00	0.15	84.75		
	Cross Road	Cum	1	129.00	3.00	0.15	58.05		
	CrossRoad	Cum	1	94.00	3.00	0.15	42.30		

Bill No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road	Cum	1	34.00	3.40	0.15	17.34		
	15th Cross Road	Cum	1	116.00	3.20	0.15	55.68		
	17th Cross Road	Cum	1	91.00	4.00	0.15	54.60		
	Cross Road	Cum	1	126.00	3.80	0.15	71.82		
	4th Cross Road	Cum	1	147.00	3.90	0.15	86.00		
	Cross Road	Cum	1	92.00	3.80	0.15	52.44		
	Cross Road	Cum	1	61.00	2.40	0.15	21.96		
	3rd Cross Road								
		Cum	1	36.00	5.90	0.15	31.86		
		Cum	1	36.00	3.90	0.15	21.06		
	Cross Road Connecting 3rd Cross to 2nd Cross	Cum	1	33.00	3.50	0.15	17.33		
	Cross Road	Cum	1	122.00	3.50	0.15	64.05		
	Cross Road	Cum	1	90.50	3.50	0.15	47.51		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total								
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)						969.69	5421.90	5257541.88
	New Drain								
	Bottom Raft								
	Manavarti Tota								
	Near Manjunath Book Store	Cum	1	152.00	0.75	0.15	17.10		
	between House	Cum	1	115.00	0.90	0.15	15.53		
	Cross Road	Cum	1	77.00	0.75	0.15	8.66		
	Cross Road	Cum	2	34.00	0.75	0.15	7.65		
	17th Cross Road	Cum	1	91.00	0.75	0.15	10.24		
	Cross Road	Cum	1	126.00	0.75	0.15	14.18		
	4th Cross Road	Cum	1	147.00	0.75	0.15	16.54		
	Cross Road	Cum	1	92.00	0.75	0.15	10.35		
	Cross Road	Cum	1	61.00	0.75	0.15	6.86		
	Cross Road	Cum	1	51.00	0.75	0.15	5.74		
	3rd Cross Road								
		Cum	2	36.00	0.75	0.15	8.10		
		Cum	2	36.00	0.75	0.15	8.10		
	Cross Road Connecting 3rd Cross to 2nd Cross	Cum	1	33.00	0.75	0.15	3.71		
	Cross Road	Cum	1	122.00	0.75	0.15	13.73		
	Cross Road	Cum	1	90.50	0.75	0.15	10.18		
	Side Walls								
	Manavarti Tota								
	Near Manjunath Book Store	Cum	2	152.00	0.15	0.75	34.20		
		Cum	2	115.00	0.15	0.75	25.88		
	Cross Road	Cum	2	77.00	0.15	0.75	17.33		
	Cross Road	Cum	4	34.00	0.15	0.60	12.24		
	17th Cross Road	Cum	2	91.00	0.15	0.60	16.38		
	Cross Road	Cum	2	126.00	0.15	0.60	22.68		
	4th Cross Road	Cum	2	147.00	0.15	0.60	26.46		
	Cross Road	Cum	2	92.00	0.15	0.60	16.56		
	Cross Road	Cum	2	61.00	0.15	0.60	10.98		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road	Cum	2	51.00	0.15	0.60	9.18		
	3rd Cross Road								
		Cum	4	36.00	0.15	0.60	12.96		
		Cum	4	36.00	0.15	0.60	12.96		
	Cross Road Connecting 3rd Cross to 2nd Cross	Cum	2	33.00	0.15	0.60	5.94		
	Cross Road	Cum	2	122.00	0.15	0.60	21.96		
	Cross Road	Cum	2	90.50	0.15	0.60	16.29		
	New Culvert					**Sub Total**	**418.65**		
	Cross Road	Cum	1	5.50	1.50	0.20	1.65		
	15th Cross Road	Cum	1	4.00	1.20	0.20	0.96		
	Cross Road	Cum	1	4.20	1.20	0.20	1.01		
	3rd Cross Road		1	6.40	1.20	0.20	1.54		
	Side Walls								
	Cross Road	Cum	2	5.50	0.20	0.75	1.65		
	15th Cross Road	Cum	2	4.00	0.20	0.75	1.20		
	Cross Road	Cum	2	4.20	0.20	0.60	1.01		
	3rd Cross Road	Cum	2	6.40	0.20	0.60	1.54		
						Sub Total	**10.55**		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						**429.19**	**7070.20**	**3034489.19**
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.6				418.65		
		kg	Steel assumed 60Kg/Cum of Concrete				25118.78		
		tonne					25.12		
	For Culvert	Cum	From item No 06				10.55		
		kg	Steel assumed 90Kg/Cum of Concrete				949.32		
		tonne					0.95		
	Basic rate	61365.00							
	Area weightage 6%	3681.90							
	Sub Total	65046.90							
	Total						**26.07**	**65046.90**	**1695648.77**
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Provide 50% for Missing/Damaged	Sqm	From item no.4				**502.05**		
	Cross Road	Sqm	1	122.00	0.75		91.50		
	Cross Road	Sqm	1	90.50	0.75		67.88		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Data Rate	**2337.00**							
	Total								
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha						**661.43**	**2337.00**	**1545750.23**
	New Culvert								
	Cross Road	Sqm	1	5.50	1.50		8.25		
	15th Cross Road	Sqm	1	4.00	1.20		4.80		
	Cross Road	Sqm	1	4.20	1.20		5.04		
	3rd Cross Road	Sqm	1	6.40	1.20		7.68		
	Data rate	**5418.00**							
	Total								
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)						**25.77**	**5418.00**	**139621.86**
	Cross Road	Cum	1	113.00	5.00	0.20	113.00		
	Cross Road	Cum	1	129.00	3.00	0.20	77.40		
	CrossRoad	Cum	1	94.00	3.00	0.20	56.40		
	Cross Road	Cum	1	122.00	3.50	0.20	85.40		
	Cross Road	Cum	1	34.00	3.40	0.20	23.12		
	15th Cross Road	Cum	1	116.00	3.20	0.20	74.24		
	17th Cross Road	Cum	1	91.00	4.00	0.20	72.80		
	Cross Road	Cum	1	126.00	3.80	0.20	95.76		
	4th Cross Road	Cum	1	147.00	3.90	0.20	114.66		
	Cross Road	Cum	1	92.00	3.80	0.20	69.92		
	Cross Road	Cum	1	61.00	2.40	0.20	29.28		
	Cross Road	Cum	1	51.00	2.60	0.20	26.52		
	3rd Cross Road								
		Cum	1	36.00	5.90	0.20	42.48		
		Cum	1	36.00	3.90	0.20	28.08		
	Cross Road Connecting 3rd Cross to 2nd Cross	Cum	1	33.00	3.50	0.20	23.10		
	Cross Road	Cum	1	122.00	3.50	0.20	85.40		
	Cross Road	Cum	1	90.50	3.50	0.20	63.35		
	Basic rate	899.00							
	Area weightage 6%	53.94							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**1030.42**							
	Total						**1080.91**	**1030.42**	**1113791.28**

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
Cross Road	Cum	1	113.00	5.00	0.15	84.75		
Cross Road	Cum	1	129.00	3.00	0.15	58.05		
CrossRoad	Cum	1	94.00	3.00	0.15	42.30		
Cross Road	Cum	1	122.00	3.50	0.15	64.05		
15th Cross Road	Cum	1	34.00	3.40	0.15	17.34		
17th Cross Road	Cum	1	116.00	3.20	0.15	55.68		
Cross Road	Cum	1	91.00	4.00	0.15	54.60		
4th Cross Road	Cum	1	126.00	3.80	0.15	71.82		
Cross Road	Cum	1	147.00	3.90	0.15	86.00		
Cross Road	Cum	1	92.00	3.80	0.15	52.44		
Cross Road	Cum	1	61.00	2.40	0.15	21.96		
3rd Cross Road								
	Cum	1	36.00	5.90	0.15	31.86		
	Cum	1	36.00	3.90	0.15	21.06		
Cross Road Connecting 3rd Cross to 2nd Cross	Cum	1	33.00	3.50	0.15	17.33		
Cross Road	Cum	1	122.00	3.50	0.15	64.05		
Cross Road	Cum	1	90.50	3.50	0.15	47.51		
Basic rate	4916.00							
Area weightage 6%	294.96							
sub Total	5210.96							
Total						810.68	5210.96	4224434.08
							Grand Total	17497520.26
							DPR Charges (1% of estimated cost)	200000.00
							Project management And Consultancy Charges(1% of estimated cost)	200000.00
							GST Charges (12% of estimated cost)	2099702.43
							Miscellenious and rounding	2777.31
							Total Amount	20000000.00
							RUPEES TWO CRORE ONLY	

Technical Sanction
Accorded For Rs 200: toleracharges
Head of A/C ... P. 2175
CER NO 64 Dt:..

Arrangement

CE (NK)

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

GOPRASAD CONSULTANTS
BANGALORE

Rs. 200.00 lakhs only
Dy. Mayor Council
Subject
Enclosure